

Rule 121 compliant format, requested by examiner.  
Original filed 8/3/04

PATENT APPLICATION  
Docket No:10209.388

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: )  
                        Claude Jarakae Jensen et al.         )  
                        )  
Serial No.:        10/044,158                              )       Art Unit  
                        )    1651  
Filed:           January 11, 2002                            )  
                        )  
For:               FREEZE CONCENTRATE PROCESS            )  
                        )  
Examiner:        Patricia Leith                            )

REQUEST FOR AMENDMENT AFTER ALLOWANCE

Mail Stop Issue Fee  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Applicant respectfully requests entry of the following amendments pursuant to 37 CFR §1.312, as a notice of allowance has now been received in connection with the above-referenced application.

AMENDMENTS

Please replace the paragraph on page 10 under the title "BRIEF DESCRIPTION OF THE DRAWINGS" with the following amended paragraph:

The foregoing and other objects and features of the present invention will become more fully apparent from the following description and appended claims, taken in conjunction with the accompanying drawings. Understanding that these drawings depict only typical embodiments of the invention and are, therefore, not to be considered limiting of its scope, the invention will be described and explained with additional specificity and detail through the use of the accompanying drawings in which:

Figure 1 shows a graph depicting the phase transition properties of water; and

Figure 2 shows a graph depicting a phase diagram of a binary mixture.

~~Figure 3 shows one embodiment of a method of concentrating juice with reverse osmosis;~~  
~~and~~

~~Figure 4 shows a graph depicting water/feed to concentrate to be achieved.~~

Please replace the paragraph on page 13 starting at line 20 with the following amended paragraph:

Concentration by freezing has several advantages over other concentration processes such as evaporation and reverse osmosis. See ~~Figure 3~~. Some of the advantages claimed are discussed below.

Please replace the paragraph on page 15 starting at line 16 with the following amended paragraph:

In spite of the developments in water crystallography, there is always some loss of solids by entrainment in the crystals. As the solids are concentrated during freezing, the ice crystal size

progressively decreases. The washing of the ice crystals therefore becomes more difficult and may require larger-diameter wash columns. The minimum desirable size of the ice crystals is reported to be 100 to 300  $\mu\text{m}$ . Larger ice crystals can be grown by increasing the retention times of the feed in the crystallizer. See Figure 4. This may, however, partially offset the overall economics by lowering the output as well as increased energy requirements.

AMENDMENT TO THE DRAWINGS

Replacement sheets of the drawings are being submitted under separate cover entitled "Letter to Official Draftsperson." The Replacement sheets (2 sheets) replace original Figures 1-4. The Replacement Sheets now are Figures 1 and 2 and each are labelled as prior art.

CONCLUSION

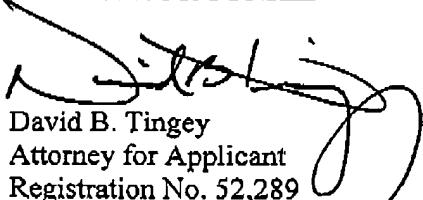
Based on the foregoing, Applicant believes that the application as amended, is in condition for allowance and respectfully requests the same.

Should the Examiner have any questions, comments, or suggestions in furtherance of the prosecution of this application, the Examiner is invited to initiate a telephone interview with undersigned counsel.

DATED this 10<sup>th</sup> day of December, 2004.

Respectfully Submitted,

KIRTON & McCONKIE



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